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PATENT

Attorney Docket No.: 02307K-085040US

Client reference No.: 93-239-2

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:

Charo, Israel F.

Application No.: 09/625,573

Filed: July 25, 2000

For: MAMMALIAN MONOCYTE  
CHEMOATTRACTANT PROTEIN  
RECEPTORS

Examiner: Christopher J. Nichols

Art Unit: 1646

SUPPLEMENTAL INFORMATION  
DISCLOSURE STATEMENT UNDER 37  
CFR §1.97 and §1.98

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

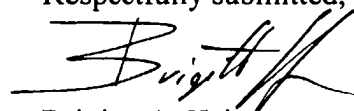
Sir:

The references cited on the attached PTO/SB/08A and PTO/SB/08B forms are being called to the attention of the Examiner. Copies of the references are enclosed. It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

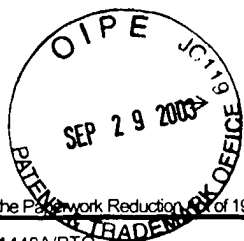
Applicant believes that no fee is required for submission of this statement, since this IDS was previously submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Brigitte A. Hajos", with a stylized flourish at the end.

Brigitte A. Hajos  
Reg. No. 50,971

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PTO/SB/08A (10-01)  
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Substitute for form 1449A/PTO

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet 1 of 3

### Complete if Known

Application Number	09/625,573
Filing Date	July 25, 2000
First Named Inventor	Charo, Israel F.
Art Unit	1646
Examiner Name	Nichols, Christopher J.
Attorney Docket Number	02307K-085040US

### U.S. PATENT DOCUMENTS

Examiner	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA	US-5,547,854	08-20-1996	Donahoe et al.	
	AB	US-5,460,955	10-24-1995	Mosher et al.	
	AC	US-5,413,778	05-09-1995	Kunkel et al.	

### FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD- YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	AD	WO	94/07542		04-14-1994			

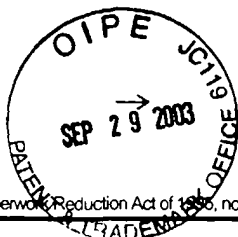
Examiner  
Signature

Date  
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Kind Codes of U.S. Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 2 of 3

**Complete if Known**

Application Number	09/625,573
Filing Date	July 25, 2000
First Named Inventor	Charo, Israel F.
Art Unit	1646
Examiner Name	Nichols, Christopher J.
Attorney Docket Number	02307K-085040US

**OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS**

Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AE	ANSUBEL, F.M., <i>Current Protocols in Molecular Biology</i> , Wiley & Sons, New York 1:22-32, pages 6.11.11-6.11.16 (1994).	<input type="checkbox"/>
	AF	CHARO et al., "Molecular cloning and functional expression of two monocyte chemoattractant protein 1 receptors reveals alternative splicing of the carboxyl-terminal tails," <i>PNAS</i> , 91:2752-2756 (1994).	<input type="checkbox"/>
	AG	CUSHING et al., "Minimally modified low density lipoprotein induces monocyte chemotactic protein 1 in human endothelial cells and smooth muscle cells," <i>PNAS</i> , 87:5134-5138 (1990).	<input type="checkbox"/>
	AH	EDGINGTON, S.M., "Chemokines In Cardiovascular Disease," <i>Bio/Technology</i> , 11:676-681 (1993).	<input type="checkbox"/>
	AI	FAGGIOTTO et al., "Studies of Hypercholesterolemia in the Nonhuman Primate -I. Changes that Lead to Fatty Streak Formation," <i>Arteriosclerosis</i> , 4(4): 323 - 340 (1984).	<input type="checkbox"/>
	AJ	FURUTANI et al., "Cloning and sequencing of the cDNA for human monocyte chemotactic and activating factor (MCAF)," <i>Biochemical and Biophysical Research Communications</i> , 159(1):249-255 (1989).	<input type="checkbox"/>
	AK	GAO et al., "Structure and functional expression of the human macrophage inflammatory protein 1 $\alpha$ /RANTES receptor," <i>The Journal of Experimental Medicine</i> , 177:1421-1427 (1993).	<input type="checkbox"/>
	AL	GEARING et al., "Expression cloning of a receptor for human granulocyte-macrophage colony-stimulating factor," <i>EMBO J.</i> , 8(12): 3667-3676 (1989).	<input type="checkbox"/>
	AM	HOLMES et al., "Structure and functional expression of a human interleukin-8 receptor," <i>Science</i> , 253:1278-1280 (1990).	<input type="checkbox"/>
	AN	JONES et al., "Potential Role of Monocyte Chemoattractant Protein 1/JE in Monocyte/Macrophage-Dependent IgA Immune Complex Alveolitis in the Rat," <i>The Journal of Immunology</i> , 149(6):2147-2154 (1992).	<input type="checkbox"/>
	AO	KOCH et al., "Enhanced production of monocyte chemoattractant protein-1 in rheumatoid arthritis," <i>The Journal of Clinical Investigation</i> , 90:772-779 (1992).	<input type="checkbox"/>
	AP	MURPHY et al., "Cloning of complementary DNA encoding a functional human interleukin-8 receptor," <i>Science</i> , 253:1280-1283 (1991).	<input type="checkbox"/>
	AQ	NELKEN et al., "Monocyte chemoattractant protein-1 in human atheromatous plaques," <i>J. Clin. Invest.</i> , 88:1121-1127 (1991).	<input type="checkbox"/>
	AR	NEOTE et al., "Molecular cloning, functional expression, and signaling characteristics of a C-C Chemokine Receptor," <i>Cell</i> , 72:415-425 (1993).	<input type="checkbox"/>
	AS	OPPENHEIM et al., "Properties of the Novel Proinflammatory Supergene 'Interkrine' Cytokine Family," <i>Annual Review of Immunology</i> , 9:617-648 (1991).	<input type="checkbox"/>
	AT	REECK et al., "Homology in Proteins and Nucleic Acids: A Terminology Muddle and a Way out of it," <i>Cell</i> , 50:667 (1987).	<input type="checkbox"/>
	AU	ROLLINS et al., "Suppression of tumor formation in vivo by expression of the JE gene in malignant cells," <i>Molecular and Cellular Biology</i> , 11(6):3125-3131 (1991).	<input type="checkbox"/>

Examiner  
SignatureDate  
Considered

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U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

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<b>Substitute for form 1449B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	09/625,573
		Filing Date	July 25, 2000
		First Named Inventor	Charo, Israel F.
		Art Unit	1646
		Examiner Name	Nichols, Christopher J.
Sheet 3 of 3	Attorney Docket Number	02307K-085040US	

AV	VAN RIPER et al., "Characterization and Species Distribution of High Affinity GTP-coupled Receptors for Human Rantes and Monocyte Chemoattractant Protein 1," <u>J. Exp. Med.</u> , 177:851-856 (1993).	<input type="checkbox"/>
AW	WALTER et al., "Macrophage Infiltration and Growth of Sarcoma Clones Expressing Different Amounts of Monocyte Chemotactic Protein/JE," <u>Int. J. Cancer</u> , 49:431-435 (1991).	<input type="checkbox"/>
AX	WANG et al., "Identification of RANTES Receptors on Human Monocytic Cells: Competition for Binding and Desensitization by Homologous Chemotactic Cytokines," <u>The Journal of Experimental Medicine</u> , 177:699-705 (1993).	<input type="checkbox"/>
AY	WATSON, eds. <u>The G-Protein Linked Receptor - Facts Book</u> , London, Academic Press (1994) Introduction, pp. 2-6	<input type="checkbox"/>
AZ	WOLPE et al., "Macrophage inflammatory proteins 1 and 2: members of a novel superfamily of cytokines," <u>The FASEB Journal</u> , 3:2565-2573 (1989).	<input type="checkbox"/>
BA	YAMAGAMI et al., "cDNA cloning and functional expression of a human monocyte chemoattractant protein 1 receptor," <u>Biochem. Biophys. Res. Com.</u> , 202(2):1156-1162 (1994).	<input type="checkbox"/>
BB	YLA-HERTTUALA et al. "Expression of monocyte chemoattractant protein 1 in macrophage-rich areas of human and rabbit atherosclerotic lesions," <u>PNAS</u> , 88:5252-5256 (1991).	<input type="checkbox"/>
BC	YOSHIMURA et al., "Identification of High Affinity Receptors for Human Monocyte Chemoattractant Protein-1 on Human Monocytes," <u>J. Immunology</u> , 145(1): 292-297 (1990).	<input type="checkbox"/>
BD	YOSHIMURA et al., "Purification and amino acid analysis of two human glioma-derived monocyte chemoattractants," <u>The Journal of Experimental Medicine</u> , 169:1449-1459 (1989).	<input type="checkbox"/>

Examiner Signature		Date Considered	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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1646  
1647  
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<b>TRANSMITTAL FORM</b> <i>(to be used for all correspondence after initial filing)</i>	Application Number	09/625,573	
	Filing Date	July 25, 2000 <b>OCT 02 2003</b>	
	First Named Inventor	Charo, Israel R.	
	Art Unit	1646 <b>TECH CENTER 1600/2900</b>	
	Examiner Name	Christopher J. Nichols	
Total Number of Pages in This Submission		Attorney Docket Number	02307K-085040US

ENCLOSURES (Check all that apply)		
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Remarks		The Commissioner is authorized to charge any additional fees to Deposit Account 20-1430.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT	
Firm or Individual	Townsend and Townsend and Crew LLP Brigitte A. Hajos Reg. No. 50,971
Signature	
Date	September 26, 2003

CERTIFICATE OF TRANSMISSION/MAILING			
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Typed or printed name	Kristi Coplin		
Signature		Date	September 26, 2003

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